

Town of Lexington

PLANNING BOARD

1625 Massachusetts Avenue Lexington, MA 02420 Tel (781) 698-4560 planning@lexingtonma.gov www.lexingtonma.gov/planning Robert Creech, Chair Robert D. Peters, Vice Chair Ginna Johnson, Clerk Richard L. Canale Charles Hornig Michael Leon, Associate

1 2	RECOMMENDATION REPORT OF THE LEXINGTON PLANNING BOARD ARTICLE 13: AMEND ZONING BYLAW – SOLAR ENERGY SYSTEMS		Deleted: THE
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4	RECOMMENDATION		
5	The Planning Board unanimously recommends that Town Meeting APPROVE the		
6	motion under Article 13, Solar Energy Systems. On Wednesday, September 23, 2020,		
7	after a series of public hearings, the Planning Board voted to recommend favorable		
8	action with a vote of in favor, in opposition, and in abstention for Article		
9	13: Solar Energy Systems.		
10	BACKGROUND		
11	Efforts throughout the Commonwealth and country are being made to reduce the reliance on		
12	carbon fuels and promote clean sources of energy. Since 2016, the Town of Lexington has		
13 14	taken significant strides in promoting Net-zero carbon-neutral buildings and other sustainable measures. In concert with Sustainable Lexington, the Planning Board developed Article 13:		
15	Solar Energy Systems, in order to allow for less restrictive installations for both residential		
16	and commercial locations,		Deleted: installations
17	Massachusetts General Law (MGL), Chapter (c.) 40A §3 states:		Deleted: According to
18	No zoning ordinance or by-law shall prohibit or unreasonably regulate the		Deleted: .
19	installation of solar energy systems or the building of structures that facilitate		Deleted: .
20 21	the collection of solar energy, except where necessary to protect the public health, safety or welfare.		Deleted: .
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22 23	Article 13: Solar Energy Systems, as proposed, will regulate Canopy, Large-scale, and Residential Solar Energy Systems through a site plan review process, while Building-		Deleted: Section
24	mounted Solar Energy Systems will be permitted by-right. Given the differences between	//	Deleted: ,
25	commercial and residential Solar Energy System installations, it was determined to separate		Deleted: which
26	the two types of Solar Energy Systems.		
27	To ensure that Canopy, Large-scale, and Residential Solar Energy Systems are adequately		
28	regulated, the Planning Board will amend the Planning Board Regulations (Chapter 176) by adding a new section, Solar Energy Systems. These regulations will guide Applicants for	<	Deleted: be
29 30	practical Solar Energy System projects and provide the Planning Board with transparent and		Deleted: ing
31	predictive review procedures for the review of Solar Energy System projects.		
32	PUBLIC HEARING PROCESS		
33	Due to COVID-19, all of the zoning articles initially scheduled for the 2020 Annual Town		
34	Meeting were postponed to a 2020 Fall Special Town Meeting. Due to the length of time		Deleted: scheduled for March of 2020
35 36	between the Annual and Fall Special Town Meetings, the Planning Board was required to hold new public hearings. To ensure all information heard during the public hearings		Deleted: of 2020
30	to note new public hearings. To ensure an information heard during the public hearings		

has been communicated, this section of this report provides a review of the public hearings held for the 2020 Annual Town Meeting and 2020 Fall Special Town Meeting.

Annual Town Meeting Public Hearing Proceedings (February - March 2020)

On Wednesday, February 26, 2020, after the publication of the legal advertisement in the Boston Globe Newspaper on February 11, 2020, and February 18, 2020, and notification sent to parties of interest, the Planning Board opened its public hearing for Article 39: Solar Energy Systems. A continued public hearing was held on Wednesday, March 4, 2020, at which time the Planning Board closed the public hearing and made a favorable recommendation to the 2020 Annual Town Meeting,

The Planning Board during the public hearing process provided comments, in addition to taking public comments. Much of the discussion during the Wednesday, March 4, 2020, public hearing was associated with Residential Solar Energy Systems, and the concerns about such installations being located with a front, side, or rear Yard and the removal of large trees. On Thursday, March 5, 2020, the Planning Board reviewed the draft Planning Board Zoning Regulations. The Planning Board also amended the proposed zoning to prohibit Residential Solar Energy Systems from being located within the front, side, and rear Yard.

PUBLIC HEARING MINUTES

MARCH 4, 2020

 Robert Creech opened the public hearing on Article 39: Solar Energy Systems and then requested a presentation.

Charles Hornig presented a PowerPoint presentation entitled Article 39: Solar Energy Systems. The presentation cover topics such as Why This Change?; State Law; Solar Energy System Types for Building-mounted, canopy, residential, large-scale; Changes: Uses; Use Classification; Design Standards; Future Work.

Mr. Creech requested comments from members of the Planning Board. The members of the Planning Board asked comments from the public.

Mr. Creech opened the floor for public comment. The following comments were provided.

- A request for clarification regarding abutter notification for Solar Energy Systems in residential zoning districts. It was further requested as to where commercial solar energy systems are installed next to a residential property that the installation is not taller than what is permitted within a residential zoning district.
- A statement of support of both residential and commercial solar energy systems within Lexington
- A statement of dismay for both commercial and residential still being heard together
- A statement in opposition to allowing solar energy system installations within setbacks
- A request for clarification as to whether the panels will get hot, will they be able to burn someone, what is the strength of the panels if a lacrosse ball hits them.

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A statement that Sustainable Lexington voted to support the Solar Energy
 Systems, through all of its renditions of the bylaw.

Mr. Canale stated that he would like to see the proposed regulations to be better able to evaluate the proposed zoning regulations. Mr. Creech requested clarification as to when such regulations would be able to be reviewed.

Mr. Creech opened the floor again for public comments.

 A member of the public read a letter from State Senator Mike Barrett, dated March 3, 2020.

Mr. Creech provided an example of a solar installation in Burlington, MA, and requested additional comments from the Planning Board.

- Mr. Peter stated that he was in support of moving both the commercial and residential proposals moving forward.
- Ms. Johnson provided a consensus for the Planning Board to consider. Ms.
 Johnson reviewed a series of impacts that impact stormwater, trees, and the
 natural environment. Ms. Johnson stated that she could not support solar energy
 systems.
- Mr. Canale concurred with Ms. Johnson's comments.

MARCH 5, 2020

Robert Creech, Chair, opened the continued public hearing on Article 39: Solar Energy Systems and then requested a review of any updates relative to the Article.

Charles Hornig provided a brief review of updated since Wednesday, March 4, 2020, public hearing on Article 39. Ms. Loomis provided a review of the draft Planning Board Zoning Regulations (Chapter 176), relative to Site Plan Review and Solar Energy Systems.

Mr. Creech opened the floor for comments from the Tree Committee. Gerry Paul, Chair of the Lexington Tree Committee, provided a review of the draft regulations and offered several amendments to the proposed draft language.

Mr. Creech requested comments from members of the Planning Board. The Planning Board provided the following comments.

Ginna Johnson stated her encouragement for the draft Zoning Regulations as an excellent first effort. Ms. Johnson provided her concerns regarding the anticipation of future installations of Solar Energy Systems, in addition to the problems associated with the loss of trees and climate change. Ms. Johnson requested the provision to allow solar energy systems to be located in the setback. Ms. Johnson requested clarification regarding the ability of the Town to plant trees on private properties.

Mr. Paul provided a review of recent efforts between the Tree Committee and the Department of Public Works (D.P.W.). Mr. Paul concluded that allowing solar energy system installations in the setbacks is a recipe for removing large trees.

134	Ms. Johnson provided a review of the space needed for the installation of
135	replacement trees. Ms. Johnson recommended that the Yard definition be
136	removed from the draft Solar Energy Systems Bylaw.
137	Mr. Hornig provided a review of the draft regulations, which helps relocate solar
138	energy systems away from the setbacks but allows for a case-by-case basis.
139	Ms. Johnson and Mr. Hornig discussed both sides of locating Solar Energy
140	Systems within a setback.

- Richard Canale concurred with Ms. Johnson's statements about removing the Yard definition modification from the proposal. Mr. Canale stated that the Planning Board agreed upon a phased approach splitting the residential off from the proposal to allow for additional research being done.
- Robert Peters stated that he would not want to allow for residential Solar Energy Systems within the setback.
- Mr. Creech concurred with other members regarding the removal of residential Solar Energy Systems from the setbacks. Mr. Creech proposed that the Planning Board move forward with commercial at this time.

Members of the Planning Board discussed the process moving forward for a form of Solar Energy System regulations. A majority of the Planning Board concurred that they needed to move forward with removing Solar Energy Systems from the setbacks.

Mr. Creech opened the floor for public comments. The following comments were provided.

- A statement of potential language regarding the Yard definition and the addition of a new Section 6.3.3.
- A request for clarification regarding what the Planning Board intended to do
 relative to amending Residential Solar Energy Systems. A statement of a
 disappointment for the removal of the allowing Residential Solar Energy Systems
 within a setback, which would be cutting out tools from Lexington's toolbox.
- A statement of support for the proposed regulations, which included support for both residential and commercial Solar Energy Systems.

Mr. Canale stated that Lexington needs to move quickly on this initiative, but needs to be tactful as to what Town Meeting is willing to support.

Public participation continued to allow for additional comments from the public.

• A statement of support from Sustainable Lexington as presented with both residential and commercial Solar Energy System installations.

A request for clarification as to whether a solar carport would be allowed under the proposed regulations.

Fall Special Town Meeting Public Hearing Proceedings (September 2020)

On Wednesday, September 9, 2020, after the publication of the legal advertisement in the Minuteman Newspaper on August 20, 2020, and August 27, 2020, and notification

sent to parties of interest_the Planning Board opened its public hearing for Article 14:
Amend Zoning Bylaw – Solar Energy Systems. A continued public hearing was held on
Wednesday, September 23, 2020. At such time the Planning Board closed the public
hearing and made a favorable recommendation to the 2020 Special Town Meeting-2.

SEPTEMBER 9, 2020

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The Planning Board reviewed and discussed the proposed amendments to the Lexington Zoning Bylaw, relative to Solar Energy Systems. Charles Hornig presented a PowerPoint presentation entitled Article 13, Solar Energy Systems. The PowerPoint presentation included a review of Why This Change?, Types of Systems, Building-mounted, Canopy, Residential, Large-scale, Other Changes, Common Questions, Future Work. Mr. Hornig stated that Article 13 is the same zoning article that the Planning Board supported the Spring of 2020.

Bob Creech, Chair, requested comments from the Planning Board. The following comments were provided.

- Richard Canale requested clarification about when a residential solar installation becomes commercial and is the community comfortable with commercial use in residential neighborhoods?
- Ginna Johnson stated her concerns regarding the impacts to mature tree canopies.
 Ms. Johnson noted that the Planning Board prohibited large-scale solar installations on the side, rear, and front setbacks. Mr. Hornig confirmed that such uses are still banned from the Bylaw.
- Mr. Creech stated his concerns regarding the size of a ground-mounted solar installation within proximity to residential uses. Mr. Creech noted that there would be additional research for a proposal for the residential ground mounted uses for an Annual Town Meeting of 2021.

SEPTEMBER 23, 2020

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All comments and discussions during the public hearing process can be reviewed on the video stream capture of the public hearing and the associated meeting minutes.

ARTICLE MOTION & PROPOSED LANGUAGE

That the Zoning Bylaw. Chapter 135 of the Code of the Town of Lexington, be amended as follows, where [struck though text is to be removed and underlined text is to be added], and further that non-substantive changes to the numbering of this bylaw be permitted in order that it be in compliance with the numbering format of the Code of the Town of Lexington:

A. Amend § 135-3.2.2 so that it reads:

3.2.2 Limit on Size of Accessory Uses.

An accessory use may not occupy more than 25% of the area of a lot or more than 25% of the gross floor area on a lot. This limitation does not apply to off-street parking, Solar

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216	Energy Systems, or to accessory apartments, which are governed by other provisions
217	of this bylaw.

- 218 B. Add a new § 135-4.3.1.3 as follows:
- 219 3. A Solar Energy System may be located over any paved parking lot.
- 220 C. Amend § 135-4.3.2 so that it reads:
- 4.3.2 Structures on a Building.

Structures erected on a building and not used for human occupancy may exceed the maximum height of a building in feet provided no part of the structure is more than 20 feet higher than the upper elevation of the building and the total horizontal coverage of such structures other than Solar Energy Systems on the building other than Solar Energy Systems does not exceed 25%.

227 D. Add a new § 135-6.10 as follows:

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6.10 SOLAR ENERGY SYSTEMS.

1. Purpose and Intent. As a Green Community, Lexington promotes the installation and use of all Solar Energy Systems within the community. The purpose of this section is to establish standards for permitting, placement, design, construction, operation, monitoring, modification and removal of such installations; while protecting public safety; protecting against undesirable impacts on residential property and neighborhoods; protecting scenic, natural and historic resources; and protecting or providing for wildlife corridors. Lexington intends to promote the creation of Solar Energy Systems in accordance with MGL c.40A, §3 and the Green Communities Act, MGL c.25A, §10, so that Solar Energy System installations do not diminish abutting property values, while meeting sustainability initiatives for a sustainable Lexington.

2. Applicability.

- The construction and operation of all proposed Solar Energy Systems shall be consistent with all applicable local, state and federal requirements, including but not limited to all applicable safety, construction, electrical, communications and aviation requirements.
- 2. All buildings and structures forming part of a Solar Energy System shall be constructed in accordance with the State Building Code and approved by the Building Commissioner.

3. Design Standards.

- 1. The Planning Board may adopt regulations providing for Building-mounted Solar Energy Systems, Canopy Solar Energy Systems, Large-scale Solar Energy Systems, and Residential Solar Energy Systems.
- 2. The Planning Board may adopt regulations providing for the maintenance and eventual removal of Large-scale Solar Energy Systems and securing the performance thereof.
- 3. Large-scale and Residential Solar Energy Systems shall not be located in

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258 the front, side, or rear required Yard. 259 E. Add a new § 135-7.3.4 as follows: 260 7.3.4 Protected uses. 261 Notwithstanding other provisions of § 7.3 and any preliminary site development and 262 use plan, the following uses and structures protected by MGL. c. 40A, §3 shall be permitted in any P.D., CD, or R.D. district: 263 264 1. Building-mounted Solar Energy Systems shall be permitted by right. 2. Canopy Solar Energy Systems, Large-Scale Solar Energy Systems, and 265 Residential Solar Energy Systems shall be permitted with site plan review 266 267 under § 135-9.5. F. In § 135-10.1, amend the definition of SITE COVERAGE so that it reads: 268 269 The sum of all parts of a lot that are covered by a principal or accessory building or 270 other structure, other than a Solar Energy System, such parts of the lot to be delineated 271 by the intersection of the ground with the vertical plane of the outermost walls or 272 projections of a building or structure whether in contact with the ground or projecting 273 over it. 274 G. In § 135-10.1, amend the definition of STRUCTURE so that it reads: 275 Anything constructed or erected, the use of which requires a fixed location on the 276 ground, or attachment to something located on the ground, including buildings, mobile 277 homes, billboards, tanks, Solar Panels-Energy Systems, or the like, or the parts thereof, 278 and swimming pools, but not including paved surfaces such as a driveway, a walk or a 279 280 H. In § 135-10.1, amend the definition of YARD so that it reads: 281 An open space on a lot unoccupied by a building or structure or such parts thereof as 282 covered or uncovered porches, steps, cornices, eaves and other projections; provided 283 however that fences, gates or security stations, yard accessories, ornaments and 284 furniture, Canopy Solar Energy Systems, and customary summer awnings are permitted 285 in any yard but shall be subject to height limitations. Yard depth shall be measured from 286 the street or lot line, and not from the middle of any public or private way whether owned pursuant to the derelict fee statute or otherwise, to the nearest point on a 287 288 building in a line perpendicular or normal to such lot or street line. The minimum 289 required yard shall be a strip of land of uniform depth required by this bylaw measured 290 from the lot or street line and adjacent thereto. 291 I. In § 135-10.1, add definitions as follows:

A device or structural design feature, a substantial purpose of which is to

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SOLAR ENERGY SYSTEM

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provide for the collection, storage, and distribution of solar energy for space heating or cooling, electrical generation, or water heating.

SOLAR ENERGY SYSTEM, BUILDING-MOUNTED

A Solar Energy System that is designed to be securely mounted on a building.

SOLAR ENERGY SYSTEM, CANOPY

A Solar Energy System structure that is built to cover a parking lot or other open-air use that is not a Building-mounted Solar Energy System or Residential Solar Energy System.

SOLAR ENERGY SYSTEM, LARGE SCALE

A Solar Energy System that is not a -Building-mounted Solar Energy System. Canopy Solar Energy System, or Residential Solar Energy System.

SOLAR ENERGY SYSTEM, RESIDENTIAL

A Solar Energy System that is not a Building-mounted Solar Energy System on a residential lot where the total capacity of all solar energy systems on the lot is less than or equal to twenty-five kilowatts (25 kW) of electricity, or equivalent, per dwelling unit.

E. In Table 1, Permitted Uses and Development Standards, replace row 0.1.10 with four new rows, so that it reads:

		G.C	RO	RS	RT	CN	CRS	CS	СВ	CLO	CRO	CM	C.S. X.
0.1.10	Ground mounted solar energy	¥	N	N	N	N	N	N	N	N	R	R	N
0.1.10	Solar Energy System, Building-	<u>Y</u>											
0.1.11	Solar Energy System, Canopy	<u>Y</u>	<u>R</u>										
0.1.12	Solar Energy System, Large-scale	<u>Y</u>	<u>R</u>										
0.1.13	Solar Energy System, Residential	<u>Y</u>	<u>R</u>										

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Planning Board Vote

__ moved that the Planning Board recommend favorable action for Article 13: Amend Zoning Bylaw – Solar Energy Systems, as presented. ___ seconded the motion. The Planning Board voted in favor of the motion ____. MOTION PASSED

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322	Robert Creech
323	Robert Peters
324	Ginna Johnson
325	Richard Canale
326	Charles Hornig
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328	Record of Vote
329 330	On May 13, 2020, the Planning Board voted to allow the Planning Board Chair to sign documents on behalf of the Planning Board.
331 332 333 334 335	Charles Hornig moved that the Planning Board vote to allow the Chair of the Planning Board to sign all documents for the Planning Board during the COVID-19 State of Emergency. Robert Peters seconded the motion. The Planning Board voted in favor of the motion 5-0-0 (Roll Call: Robert Peters – yes; Charles Hornig – yes; Richard Canale – yes; Ginna Johnson – yes; and Robert Creech – yes). MOTION PASSED
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337 338	Signature of the Planning Board
339	Signatures of a majority of the Planning Board,
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342	Robert Creech, Chair